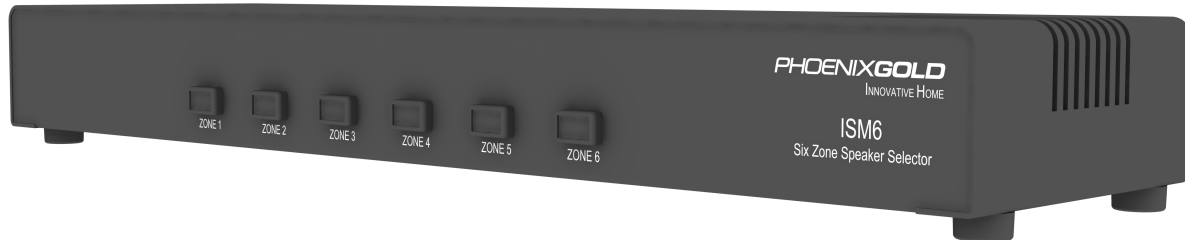


PHOENIXGOLD[®]

INNOVATIVE HOME

ISM6

6 Zone Stereo Speaker Selector



Congratulations on your purchase of the Phoenix Gold Innovative Home ISM Speaker Selector. This product is designed to distribute stereo music to several independent listening zones via connection with your existing audio system.

Please read this Installation Manual to ensure the proper installation and performance of your ISM Speaker Selector.

Function of the ISM

The ISM is a low-profile speaker-level audio distribution system with individual On/Off selectors controlling signal distribution to separate zones. Pass-through amplifier input terminals allow easy connection of additional ISM selectors. User-selectable Protection circuitry ensures that the combined speaker load impedance presented to the amplifier never falls below 3 ohms per channel.

Installation and Connection Procedures

Polarity (+/-) for the input and output speaker terminals is clearly marked on the ISM rear panel. Speaker wire is coded to identify each conductor as either positive (+) or negative (-). This may be by color coding, or one conductor may have a printed marking or a rib along one edge that you will not find on the other. Identify which type of polarity coding that your wire is using and which conductor is positive (+) or negative (-).

1. Route the speaker cables from each speaker zone and the amplifier to the terminals on the ISM. These terminals will accept up to 10 gauge speaker cable. Use of speaker cable smaller than 16 gauge is not recommended.

Note: UL rated CL3 speaker wire is recommended when running wire inside your walls. In many areas it may be required by code. When installing your speaker wire, avoid running the speaker wire parallel to any 120V power lines to avoid picking up hum and interference from the power service. If the speaker wire needs to cross a 120V power line at a right angle this is acceptable and will not create a problem. If you are uncomfortable with running the speaker wire yourself in existing construction, it is recommended that you retain a qualified custom home installation specialist or electrician.

2. Strip 3/8" insulation from the end of the cable and twist the exposed end to avoid fraying.

3. Press the spring-loaded lever on the speaker terminal and insert the speaker cable, carefully observing the polarity.

4. Release the spring loaded lever to clamp the cable in place. Gently pull on the cable to ensure it's securely connected.

5. The system is now ready for testing. Turn on the sound system and set the amplifier's volume control to a moderate level.

6. Sound should be heard from each zone when its button is depressed. Check each zone for proper left and right connections by activating each zone with the balance adjusted to full left and then to full right.

7. Attach the custom die-cut labels provided to the buttons of the ISM, referencing each button to its zone zone within the installation.

Recommended Speaker Wire Gauges

The resistance of the speaker wire in your installation can cause your speakers to perform at less than their optimum quality level. Excess resistance caused by using an undersized speaker wire can result in loss of detail and definition in the bass region of your audio program, as well as loss of dynamic range. Over extremely long wire runs you may even experience a loss of high frequency content in the audio signal.

To prevent sonic degradation in your speaker installation, total speaker wire resistance should be kept below 0.5 ohms. The following table lists recommended speaker wire gauge versus wire run length.

50' or less - 16 Gauge 2-Cond. CL3 Rated
50' - 150' - 12 Gauge 2-Cond. CL3 Rated
150' - 200' - 10 Gauge 2-Cond. CL3 Rated

Operational Details

1. Zone Select Switch

Use labeling kit for zone identification. Press in to send music to the zone controlled by each switch.

2. Input Terminal

Connects speaker cable from amplifier to ISM unit.

3. Pass Through Terminal

Connects speaker signal to other ISM units. *Do not connect to speakers!*

4. Power Protection Circuit Switch

Read Installation Precautions section of this manual for full instructions regarding the use of this switch.

5. Zone 5-6 Output

6. Zone 3-4 Output

7. Zone 1-2 Output

Installation Precautions

- Never place the ISM where it would be exposed to excessive moisture or heat.

- Allow for a minimum of 1 inch of clearance above the top of the unit.

1 inch (25mm) Space Above

Installation Precautions (continued)

- Under no circumstances turn off the power protection circuit unless your amplifier can handle the combined impedance of all zones activated.

For example:

With the power protection circuit switch in the "OFF" position, an ISM6 with six pairs of 8 ohm speakers connected will present the amplifier with a 1.33 ohm load per channel. This may damage your amplifier or cause it to shut down.

With the power protection circuit switch "ON", an ISM6 with six pairs of 8 ohm speakers connected will present the amplifier with a 4.33 ohm load per channel which will not present a problem for most amplifiers.

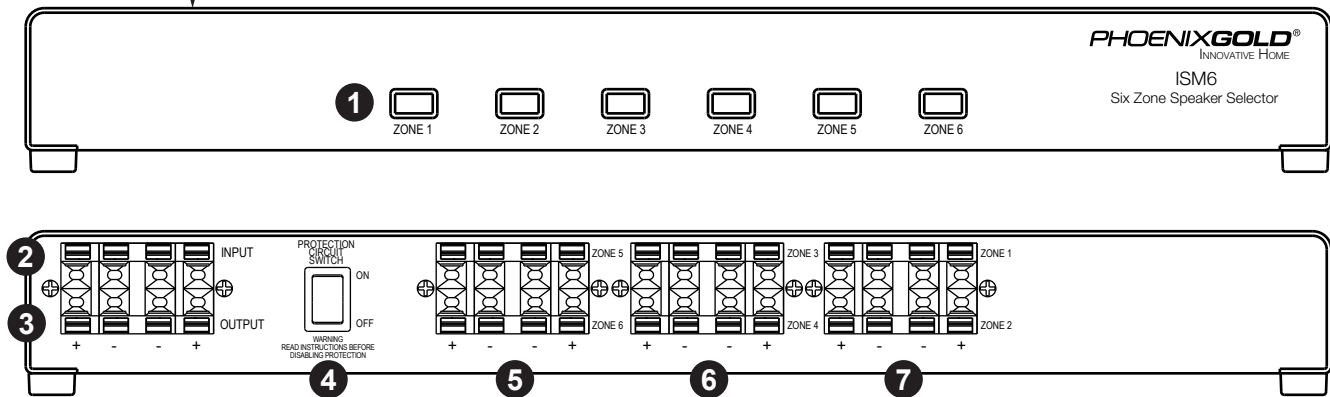
Consult your authorized dealer and/or the owner's manual for your amplifier for complete details.

- Power handling without the protection circuit switch engaged is 140 watts per channel.

- Power handling with the protection circuit switch engaged is 70 watts per channel.

Total Zones Connected	Protection Switch	Power Capacity Per Channel
1-2	May Be Off	140 Watts
3-8	Must Be On	70 Watts

ISM6 dimensions: 17" x 4.5" x 1.75" (432 x 115 x 45mm)



Two Year Limited Warranty

Phoenix Gold Innovative Home, a division of Peak Audio Group, warrants this product against defects in materials and workmanship for a limited period of time. For a period of two (2) years from date of original purchase, we will repair or replace the product, at our option, without charge for parts. Customer must pay for all labor charges associated with the removal and re-installation of speakers for the limited period and all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase. This limited warranty applies only to purchases from authorized Phoenix Gold Innovative Home Retailers or Distributors. This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States.

Consumers are required to provide a copy of the original sales invoice from an authorized Phoenix Gold Innovative Home Retailer or Distributor when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, fire, flood, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than Phoenix Gold Innovative Home, or damage that is attributable to Acts of God. It does not cover costs of transportation to Phoenix Gold Innovative Home or damage in transit. The customer should return their defective product, freight prepaid and insured, to Phoenix Gold Innovative Home only after receiving a Return Authorization.

Repair or replacement under the terms of this warranty does not extend the term of this warranty. Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. If the defective product is discontinued Phoenix Gold Innovative Home may replace the product with an equivalent or superior product at its option. Any cost of re-installation or repair of wall or ceiling surface is the sole responsibility of the customer and that cost shall not be the responsibility of Phoenix Gold Innovative Home. Under no circumstances shall Phoenix Gold Innovative Home be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.

PHOENIXGOLD®
INNOVATIVE HOME

13970 SW 72nd Avenue ■ Portland, Oregon 97223
503.914.4688 ■ Fax: 503.746.5224 ■ Support: 877.715.5439
www.audiosource.net ■ support@audiosource.net